

# PATENT SPECIFICATION

633,714



Application Date: Jan. 31, 1946. No. 3094/47.

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Index at acceptance:—Class 107, D(3:7).

## PROVISIONAL SPECIFICATION

### Improvements in Footpaths and the like

We, ROBERT IAN CAMPBELL, of Ard-naghyl, Minnigaff, Newton Stewart, in the County of Wigtown, a subject of the King of Great Britain, and THE SOLWAY PRE-CAST PRODUCTS, LIMITED, of Minnigaff, Newton Stewart, in the County of Wigtown, a British Company, do hereby declare the nature of this invention to be as follows:—

This invention relates to footpaths of the flagstone type, the actual composition of which comprises a crushed or ground mineral substance, or even sand, as a filler, bonded by Portland cement or other cheap and convenient equivalent bonding material.

According to the present invention the footpath comprises a plurality of sections of convenient length and convenient width fitted together end to end and formed at one or each side with an integral kerb upwardly or downwardly projecting from the upper or under horizontal surface of the section.

Each curb may have a plane vertical outside surface with a substantially semi-circular upper (or lower) surface and with a vertical or slightly sloping inside surface preferably merging with the upper (or lower) surface of the footpath portion proper of the section through a gentle curvature.

Convenient dimensions of sections suitable for household garden footpaths and the like may be, for each section, about two feet ten inches wide, about two feet long, about two inches thick, with a treadway surface about two feet three inches wide, whilst the height of the kerb above the treadway or beneath the under-surface of the slab portion, may be three inches. The weight of such a section, according to the mineral material of which it is made and the proportion thereof in relation to the amount of cement, is of the convenient order of one hundred pounds. It is to be understood, however, that the dimensions just above given are by way of example only. The invention in fact includes

[Price 2/1]

within its scope the manufacture of sections having a kerb at one side only, which sections may be used on each side of a road, the surface of which is completed by plain unkerbed rectangular slabs in between.

Each section is preferably formed by casting or moulding and may be reinforced with metal or other reinforcing material such for instance as wire netting or so-called "expanded metal" of appropriate gauge.

The invention also contemplates the integral formation on each section or flag of integral kerbs along two sides at right angles, or even at angles other than right angles.

Preferably each section or flag is formed or provided at one transverse edge with dowel pins of circular or rectangular or other section adapted to fit into correspondingly shaped holes on the mating transverse edge of an adjacent section. Such dowel pins or the like may be cast integral with the flag or section, or may consist of metal members held in by reason of the casting or moulding process.

It is to be appreciated that the surface of each kerb need not be simply rounded as above described, but may have any desired or convenient shape and may be ornamental.

Preferably the filler material is crushed granite, of which there are very large quantities in various parts of the British Isles and elsewhere, obtainable and crushable at very low cost. It will be appreciated that when the filler material is of crushed granite the footway of the path according to the invention has a good non-slip surface.

It is to be appreciated that the flags, or some of them, may be formed with holes, depressions, gutters and so on, for the purpose of drainage. Moreover, the tread surface may be formed with grooves, such as diagonal grooves, to form, for instance a diamond pattern, or so-called crazy pavement pattern.

It will be appreciated also that colouring

matter, or different colouring matters, may be introduced into the composition to be moulded, if desired, to provide attractive patterns.

Dated the 31st day of January, 1947.  
**THE SOLWAY PRE-CAST PRODUCTS,**  
**LIMITED,**  
 G. MCKERBOW,  
 Director,  
 (For the Applicant Company).  
 R. I. CAMPBELL.

## COMPLETE SPECIFICATION

### Improvements in Footpaths and the like

- 5 We, ROBERT IAN CAMPBELL, of Ard-na-Ghyll, Minnigaff, Newton Stewart, in the County of Wigtown, a subject of the King of Great Britain, and THE SOLWAY PRE-CAST PRODUCTS, LIMITED, of Minnigaff, Newton Stewart, in the County of Wigtown, a British Company, do hereby declare the nature of this invention, and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—
- 10 This invention relates to footpaths of the flagstone type, the actual composition of which comprises as the essential main ingredient a crushed or ground mineral (preferably siliceous) substance or even sand as a filler, bonded by Portland cement or other cheap and convenient equivalent bonding material.
- 20 According to the present invention the footpath comprises a plurality of sections of convenient length and convenient width fitted together end to end and formed at one or more sides with an integral kerb upwardly and/or downwardly projecting the upper or under horizontal surface of the section.
- 30 Each kerb may have a plane vertical outside surface with a substantially semi-circular upper (or lower) surface and with a vertical or slightly sloping inside surface preferably merging with the upper (or lower) surface of the footpath portion proper of the section through a gentle curvature.
- 40 Convenient dimensions of sections suitable for household garden footpaths and the like may be, for each section, about two feet ten inches wide, about two feet long, about two inches thick, with a treadway surface about two feet three inches wide, whilst the height of the kerb above the treadway or beneath the under-surface of the slab portion may be three inches. The weight of such a section, according to the mineral material of which it is made and the proportion thereof in relation to the amount of cement, is of the convenient order of one hundred pounds. It is to be understood, however, that the dimensions
- 55 just above given are by way of example

only. The invention in fact includes within its scope the manufacture of sections having a kerb at one side only (which sections may be used on each side of a road) the surface of which is completed laterally by plain unkerbed rectangular slabs in between.

Each section is preferably formed by casting or moulding and may be reinforced with metal or other reinforcing material such for instance as wire netting or so-called "expanded metal" of appropriate gauge.

The invention also contemplates the integral formation on each section or flag of integral kerbs along two sides at right angles, or even at angles other than right angles.

Preferably each section or flag is formed or provided at one transverse edge with dowel pins of circular or rectangular or triangular or other section adapted to fit into correspondingly shaped holes in the mating transverse edge of an adjacent section. Such dowel pins or the like may be cast integral with the flag or section, or may consist of metal members held in by reason of the casting or moulding process.

It is to be appreciated that the surface of each kerb need not be simply rounded as above described, but may have any desired or convenient shape and may be ornamental.

Preferably the filler material is crushed granite, of which there are very large quantities in various parts of the British Isles and elsewhere, obtainable and crushable at very low cost. It will be appreciated that when the filler material is of crushed granite the footway of the path according to the invention has a good non-slip surface.

It is to be appreciated that the flags or some of them may be formed with holes, depressions, gutters and so on, such as for the purpose of drainage. Moreover, the tread surface may be formed with grooves, such as diagonal grooves, to form, for instance, a diamond pattern, or a so-called "crazy pavement" pattern.

It will be appreciated also that colouring matter, or different colouring matters, may

be introduced into the composition to be moulded, if desired, to provide attractive patterns.

5 The accompanying drawing shows in perspective one section, by way of example, in accordance with the invention, with the preferred dimensions.

10 The illustrated section needs little description beyond stating that it comprises the flat tread slab part 1, the integrally cast or moulded kerb 2a and/or 2b and the recesses for anchored-in dowel pins of circular section as shown at 3, or alternatively recesses for rectangular dowels as  
15 represented by dotted lines at 3a.

Having now particularly described and ascertained the nature of our said invention and in what manner the same is to be performed, we declare that what we claim  
20 is :—

1. A footpath or the like of flagstone sections, each composed of fine-grained mineral (preferably siliceous) substance as the main ingredient with Portland cement  
25 or other cheap and convenient bonding material, which section of convenient length and width are or are adapted to be fitted together end to end and each formed at one or more sides with an integral kerb

projecting upwardly and/or downwardly 30 from the upper or under horizontal surface of the section.

2. For a footpath or the like, flagstone sections in accordance with claim 1, having at one transverse edge integral or cast-in 35 dowel pins adapted to fit into corresponding holes in the mating transverse edge of an adjacent section.

3. Flagstone sections as claimed in claim 1 or claim 2 composed of crushed 40 granite.

4. Footpaths or the like and flagstone sections constituting the same manufactured substantially as hereinbefore set  
45 forth and described.

Dated the 2nd day of January, 1948.

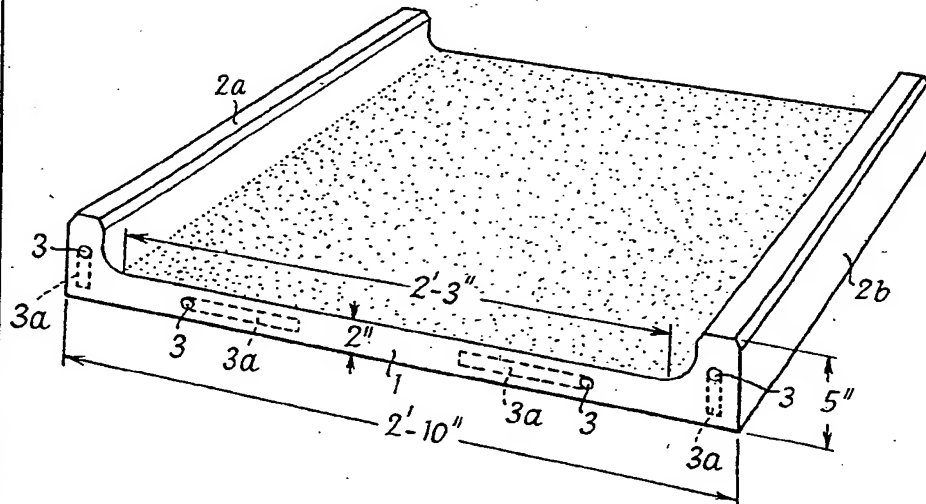
R. I. CAMPBELL,

For :  
THE SOLWAY PRE-CAST PRODUCTS,  
LIMITED,  
G. MCKERROW,  
Director.

Reference has been directed, in pursuance of Section 7, sub-section (4), of the Patents and Designs Acts, 1907 to 1947, to Specifications Nos. 582,285, 573,506, and 472,917

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copies, price 2s. 0d. each (inland) 2s. 1d. (abroad) may be obtained.

[This Drawing is a reproduction of the Original on a reduced scale.]



H. M. S. O. (Ty. P.)